

## ABSTRACT

A DAG trace cache includes traces, each storing information about interdependent instructions and the interdependency among the instructions. The interdependent instructions include a criterion instruction and are part of a program sequence that is stored in an instruction cache. The information is in the form of a directed acyclic graph. The interdependent instructions include the criterion instruction and instructions preceding the criterion instruction in the program sequence. The information in the DAG trace is used to accelerate executions of the instructions on a processor.

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